ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM
(AFATDS)

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Program Brief
C2 OAG/AAAVC C2 Conference

Brief Outline

- AFATDS Mission, Description, and Concept of Employment

- AFATDS Program Schedule
  - C2PC Fire Support Client

- Questions

Mission and System Description

AFATDS MISSION:

 To assist commanders in the control and coordination of Marine Corps fire support, and improve their ability to provide requisite fire support by ensuring the ability to monitor requests for fire; review supporting arms assets available; submit requests for fire support to higher headquarters; and assign units or systems to fire.
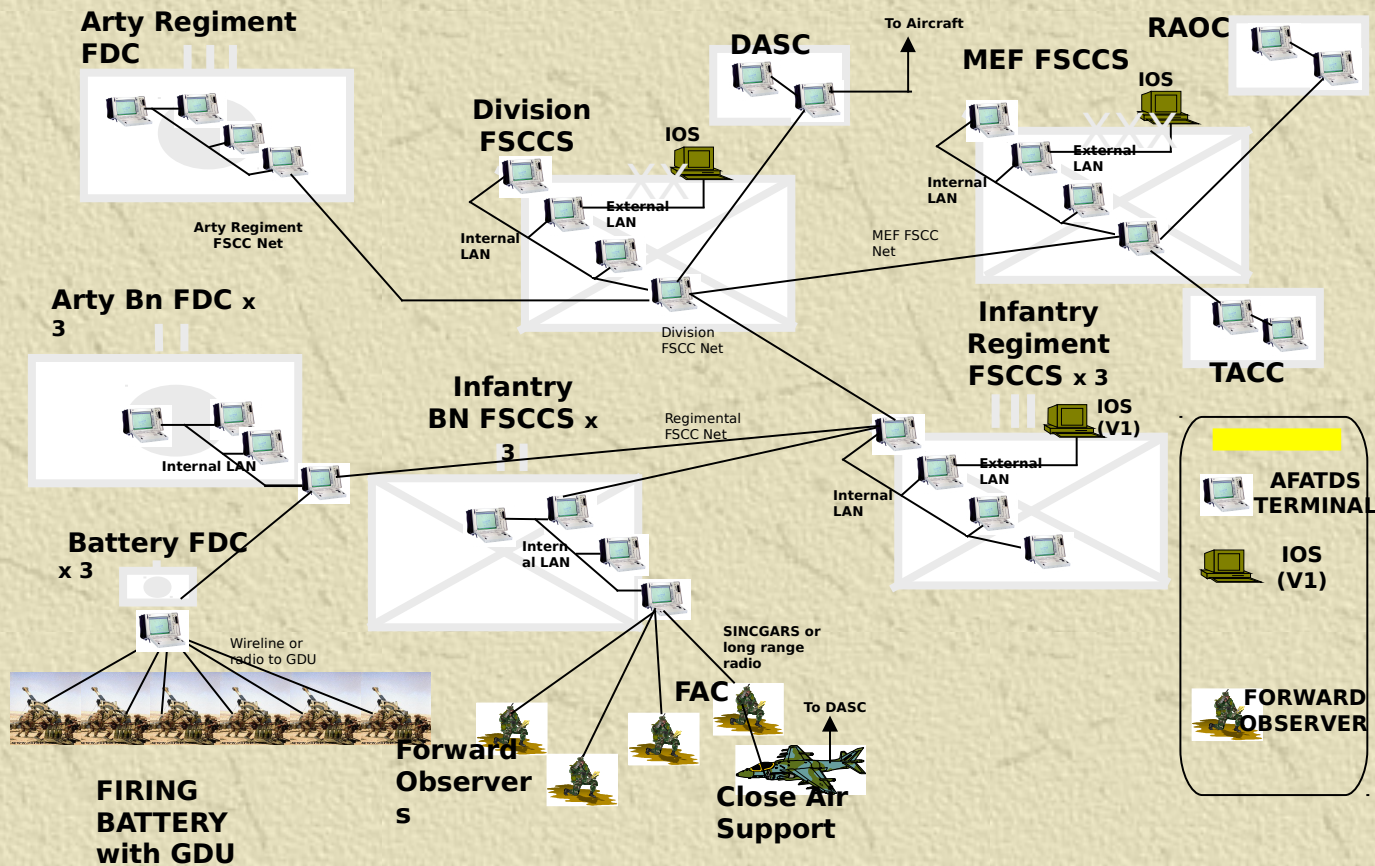
SYSTEM DESCRIPTION:

 AFATDS is an automated command and control system comprised of software modules, hardware devices, and necessary communications equipment configured to provide automated planning and execution capabilities to Fire Support Operational Facilities.

Mission/Description (Cont.)

- AFATDS is a _software driven_, automated Fire Support Command and Control (C2) network composed of various configurations or nodes interconnected by a Local Area Network (LAN) and/or tactical voice and digital communications.

- AFATDS will interface with other fire support C2 peripherals to provide fire planning, tactical and technical fire direction, management of associated digital communications nets, and interoperability with Army and NATO fire support systems.

System View

Arty Regiment FDC

Division FSCCS

DASC

To Aircraft

MEF FSCCS

RAOC

IOS

IOS

External LAN

Internal LAN

Internal LAN

External LAN

Arty Regiment FSCC Net

MEF FSCC Net

Arty Bn FDC x 3

Infantry Regiment FSCCS x 3

Infantry BN FSCCS x 3

Regimental FSCC Net

Division FSCC Net

TACC

Internal LAN

Internal LAN

Internal al LAN

External LAN

Internal LAN

IOS (V1)

Battery FDC x 3

Wireline or radio to GDU

SINCGARS or long range radio

FAC

To DASC

FIRING BATTERY with GDU

Forward Observers

Close Air Support

AFATDS TERMINAL

IOS (V1)

FORWARD OBSERVER

Typical Configurations

SINCGARS

TLDHS

AFATDS

TDN SERVER

IOS (V1)

EPLRS

SINCGARS

DACT

SINCGARS

DACT
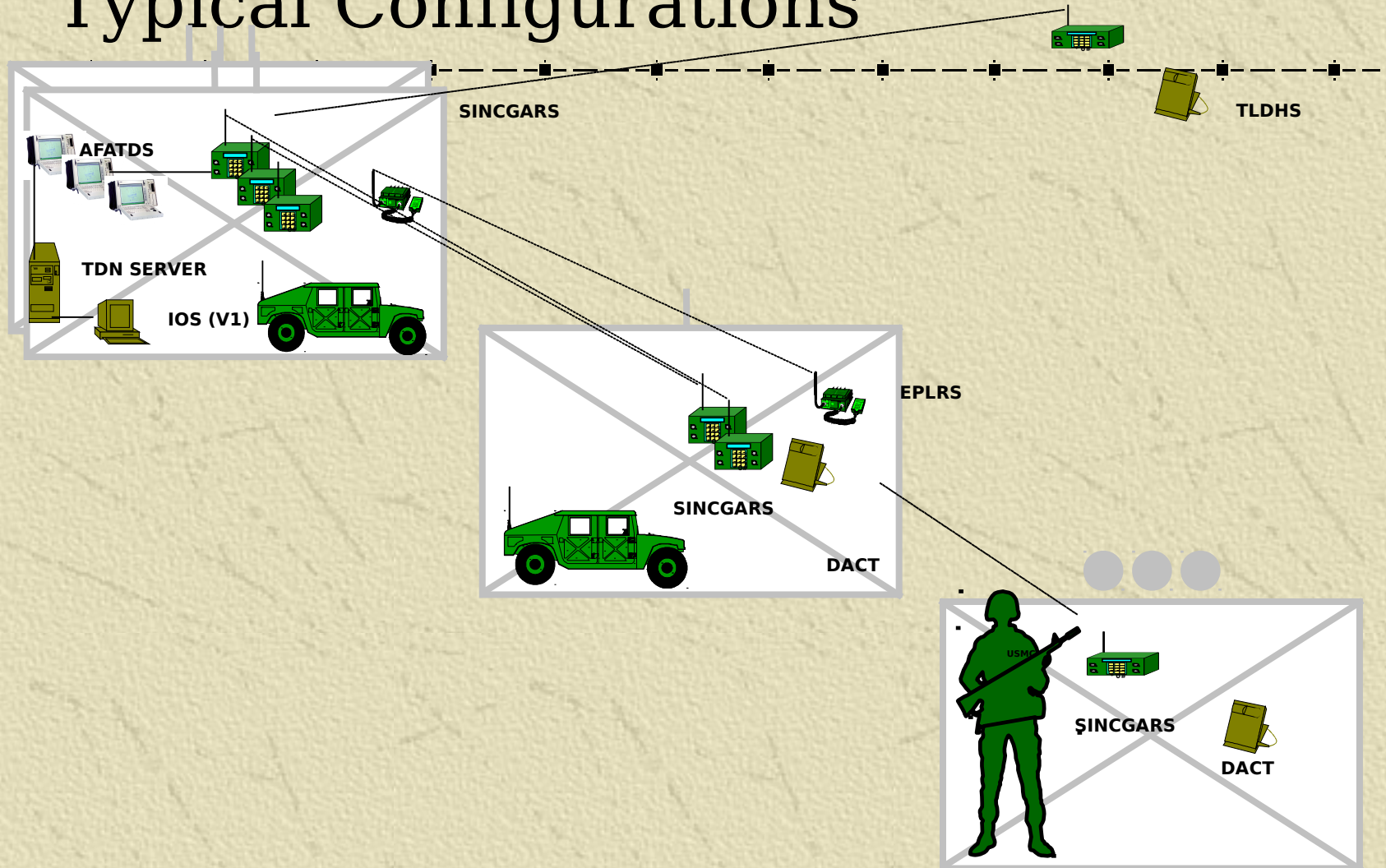
Major Program Tasks

FY03 and Future Additional Tasks

- ❑ Field V6.3.1 (A99+) S/W in Dec 02 and prepare to field
- ❑ Complete development and testing of V6.3.2 S/W in Dec 03 and prepare to field
- ❑ Finalize requirements for A V7
- ❑ Complete development and testing of AFATDS Client Fielding
- ❑ Field to maneuver units

AFATDS Fielding

Phase I of AFATDS fielding completed in FY01 to:
- MEF Force Fires Coordination Centers
- Artillery Regiment and Battalion Fire Direction Centers
- Artillery Liaison Sections
- Tactical Air Control Centers
- FSSGs
- Schools and Supporting Establishments
- Direct Air Support Centers

Phase II of AFATDS fielding completed in FY02 to:
- All Artillery Battery Fire Direction Centers Sections

Phase III of AFATDS fielding to be conducted in FY03 to:
- All Regiment and Battalion Level Maneuver Unit Fire Support
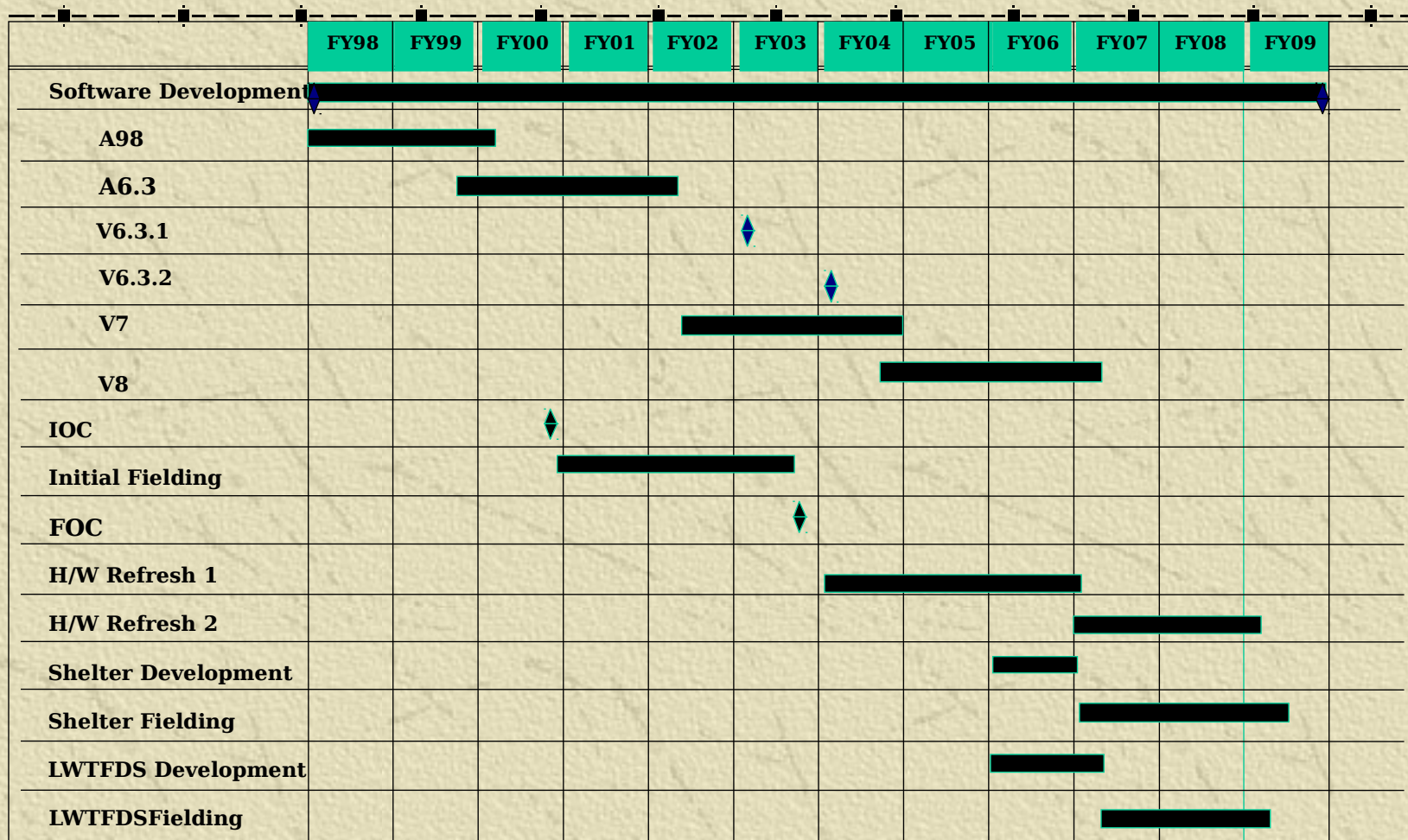Coordination Sections

AFATDS Software/Hardware

- Current version of software is V6.3 (A99)
- V6.3.1 due to be released in Dec 02
  - Incorporates the AAS to support the C2PC Fire Support Client
- V6.3.2 due to be released in Dec 03
- V7 FY04
- Also looking at migrating to Sun laptops

- Laptops should be available for purchase by Dec 03

AFATDS A V6.3 (A99)

- Adds the ability to compute firing solution for the Arty Batteries (technical fire direction)
- Improved JMCIS interface
- Utilizes JMTK (Joint Mapping Toolkit)
- Enhanced User Interface (more "Windows" like)
- Better network connectivity (multiple LANs per NIC)
- Better interface with IOS (DII COE Proxy Server)

Program Schedule Chart

	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Software Development	████	████	████	████	████	████	████	████	████	████	████	████
A98	████	██										
A6.3		██	████	██								
V6.3.1						◆						
V6.3.2							◆					
V7					██	████	█					
V8								████	██			
IOC			◆									
Initial Fielding				████	██							
FOC						◆						
H/W Refresh 1							██	████	█			
H/W Refresh 2										████	██	
Shelter Development									██			
Shelter Fielding										████	████	
LWTFDS Development									██	█		
LWTFDSFielding										██	████	

Questions?